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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/586,858	10/27/2006	Kazuhiko Ueda	Q95836	2917
10/586,858 10/27/2006 Kazuhiko Ueda 23373 7590 07/15/2011 SUGHRUE MION, PLLC 2100 PENNSYLVANIA AVENUE, N.W. SUITE 800 WASHINGTON, DC 20037	EXAMINER			
2100 PENNSYLVANIA AVENUE, N.W.			LOEWE, ROBERT S	
			ART UNIT	PAPER NUMBER
			1766	
			NOTIFICATION DATE	DELIVERY MODE
			07/15/2011	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)	
	10/586,858	UEDA ET AL.	
Office Action Summary	Examiner	Art Unit	
	ROBERT LOEWE	1766	
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet wi	th the correspondence addr	ess
A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by stat Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNIC 1.136(a). In no event, however, may a root od will apply and will expire SIX (6) MON ute, cause the application to become AB	CATION. Seply be timely filed THS from the mailing date of this common and the mailing date of this common and the common an	
Status			
Responsive to communication(s) filed on <u>08</u> 2a) This action is FINAL . 2b) ▼ The sum of the practice under the practi	nis action is non-final. vance except for formal matt	·	nerits is
Disposition of Claims			
4) ☑ Claim(s) 1,3,4,7,9-11,13 and 14 is/are pendi 4a) Of the above claim(s) is/are withdom 5) ☐ Claim(s) is/are allowed. 6) ☑ Claim(s) 1,3,4,7,9-11,13 and 14 is/are reject 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and	rawn from consideration.		
Application Papers			
9) The specification is objected to by the Exami 10) The drawing(s) filed on is/are: a) a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the	ccepted or b) objected to line drawing(s) be held in abeyant ection is required if the drawing	ce. See 37 CFR 1.85(a). s) is objected to. See 37 CFR	, ,
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure * See the attached detailed Office action for a li	ents have been received. ents have been received in A riority documents have been eau (PCT Rule 17.2(a)).	pplication No received in this National St	rage
Attachment(s) 1) D Notice of References Cited (PTO-892)		ummary (PTO-413)	
Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date)/Mail Date formal Patent Application 	

Art Unit: 1766

DETAILED ACTION

Page 2

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 6/8/11 has been entered.

Response to Arguments

Applicant's arguments/remarks, filed on 6/8/11, have been fully considered. Included with the arguments and remarks is a 1.132 Declaration with experimental data in an attempt to show that the Applicants unexpected results are commensurate in scope with the instantly claimed invention. However, component (b) as claimed may be present in amounts of from 1 to 100 parts by weight relative to 100 parts by weight of component (a). Applicant's experiments show employment of component (b) in 7.5 or 3 parts by weight per 100 parts by weight of component (a) but not 1 part, or lower. As such, it is not clear if Applicants unexpected results occur over the entire claimed range. At what point does the claimed composition no longer function as a pressure sensitive adhesive product? Whether the unexpected results are the result of unexpectedly improved results or a property not taught by the prior art, the "objective evidence of nonobviousness must be commensurate in scope with the claims which the evidence is offered to support." In other words, the showing of unexpected results must be reviewed to see if the results occur over the entire claimed range. In re Clemens, 622 F.2d 1029, 1036, 206 USPQ289, 296 (CCPA 1980). See MPEP 716.02(d). The lowest amount of component (b) employed is 3 parts by weight per 100 parts by weight of component (a) which is three times larger than what is claimed. It is submitted that if Applicants amended the instant claims such that the amount of component (b) ranges from 3-100 parts by weight per 100 parts by weight of component (a), the claims would be commensurate in scope with Applicants unexpected results.

Application/Control Number: 10/586,858

Art Unit: 1766

Claim Rejections - 35 USC § 103

Page 3

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1, 3, 4, 7, 10, 13 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Toda et al. (JP 05-302026) in view of Watabe et al. (JP 05-059267). Certified Englishlanguage translations of Watabe et al. and Toda et al. (both already of record) will be relied upon in the rejection below

Claims 1, 3, 4 and 7: Toda et al. teaches a composition comprising (A) an oxyalkylene polymer having a molecular weight of from 4,000-30,000 and having at least two hydrolyzable silyl-groups at the chain ends (paragraph 0002), such oxyalkylene polymers being prepared by a hydrosilylation reaction of an allyl-terminated polyether with the silane of formula (1). Formula (1) of Toda et al. satisfies the structural limitations of formula (1) of the instant claims. Integer "a" can include 0 or 1, which inherently yields a polyether having greater than 2 hydrolyzable silanes per polymer. Toda et al. further teaches 3-60 parts of a resin (paragraph 0019) such as rosin ester resins (paragraphs 0015-0016). The amounts of polymer (a) and tackifier (c) as taught by Toda et al. overlap with those ranges recited in instant claims 1 and 8. Toda et al. further teaches curing the composition onto steel plates, which qualify as a support material required by instant claim 1. While Toda et al. does not teach that the materials are thermally cured (Toda et al. teaches curing at room temperature), claim 1 is written using product-byprocess format. Even though product-by-process claims are limited and defined by the process, determination of patentability is based on the product itself. The patentability of a product does not depend on its method of production. If the product in the product-by-process claim is the same as or obvious from a product of the prior art, the claim is unpatentable even thought the

Application/Control Number: 10/586,858

Art Unit: 1766

prior art product was made by a different process. *In re Thorpe*, 777 F.2d 695, 698, 227 USPQ 964, 966 (Fed. Cir. 1985).

Page 4

Toda et al. does not explicitly teach the addition of an oxyalkylene polymer having the structural and molecular weight limitations of instant claim 1 [component (B) of instant claim 1]. However, Watabe et al. does teach the addition of such oxyalkylene polymers (paragraphs 0030-0036) which substantially comprise polyethers and preferably have from 0.5 to 1.2 hydrolyzable groups per polymer and preferably have molecular weights of from 2,000 to 4,000. The molecular weight range and hydrolyzable group content satisfy the limitations of component (B) of instant claim 1. Watabe et al. further teaches that the amount of component (B) should preferably be from 1 to 100 parts per 100 parts by weight of the higher molecular polymer (1) (paragraph 0036), which represents the same type of higher molecular weight polymer as taught by Toda et al. Therefore, Watabe et al. teaches the amount requirement of component (B) of the instant claims. Toda et al. and Watabe et al. are combinable because they are from the same field of endeavor, namely, curable compositions comprising silyl-terminated polyethers and curing catalysts. Further, both Toda et al. and Watabe et al. are interested in preparing compositions which are used as sealants. At the time of the invention, a person having ordinary skill in the art would have found it obvious to add the low molecular weight oxyalkylene polymers as taught by Watabe et al. into the compositions taught by Toda et al. and would have been motivated to do so since Watabe et al. teaches that the low molecular weight oxyalkylene polymers are effective plasticizers and display low migration, allowing the compositions to be pliable (paragraphs 0003 and 0007). Watabe et al. further teaches that the low molecular weight oxyalkylene polymers are superior plasticizers when compared to other known plasticizers such as phosphoric acid esters, and aromatic carboxylic acid esters (paragraphs 0006 and 0007). Toda et al. teaches the addition of plasticizers which include the same phosphoric acid esters and aromatic carboxylic acid esters plasticizers as taught by Watabe et al. (paragraph 0023 of Toda et al.). Based on the teachings of Watabe et al., a person having ordinary skill in the art would be motivated to employ the oxyalkylene polymer plasticizers as taught by Watabe et al. into the compositions as taught by Toda et al. because such oxyalkylene polymer plasticizers have improved properties over the plasticizers taught by Toda et al. as shown by Watabe et al. (Table

1). Embodiment 5 of table 1 shows the employment of dioctylphthalate instead of the oxyalkylene polymer plasticizer showed a dramatically higher weight loss.

While neither Toda et al. nor Watabe et al. expressly teach the preparation of a pressure sensitive adhesive product as required by the preamble of instant claim 1, the combination of Toda et al. and Watabe et al. render obvious the claimed composition. As such, any physical properties associated with the composition which is claimed but otherwise not taught by the prior art references would be inherent. A chemical composition and its properties are inseparable.

Claim 10: While Toda et al. does not teach curing the compositions taught therein in the manner of instant claim 10, instant claim 1 is written using product-by-process format. Even though product-by-process claims are limited and defined by the process, determination of patentability is based on the product itself. The patentability of a product does not depend on its method of production. If the product in the product-by-process claim is the same as or obvious from a product of the prior art, the claim is unpatentable even thought the prior art product was made by a different process. *In re Thorpe*, 777 F.2d 695, 698, 227 USPQ 964, 966 (Fed. Cir. 1985).

Claim 13: Toda et al. teaches that the employment of fillers is possible, but not required (paragraph 0022). As such, a person having ordinary skill in the art would have considered preparing compositions according to Toda et al. both with and without fillers, thereby satisfying the limitations of instant claim 13.

Claims 9, 11 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Toda et al. (JP 05-302026) in view of Watabe et al. (JP 05-059267), as applied to claim 1 above, further in view of Hirose et al. (US Pat. 4,593,068). Certified English-language translations of Watabe et al. and Toda et al. (both already of record) will be relied upon in the rejection below. Note also that this rejection uses a different patent to Hirose et al. and not the one relied upon in the previous Office actions.

Claims 9 and 11: Toda et al., in view of Watabe et al., render obvious the claimed composition. While neither Toda et al. nor Watabe et al. explicitly teach that the compositions may be applied to the specific support materials as required by instant claim 9, or that pressure sensitive tapes, sheets, films and labels may be produced from the compositions taught therein,

such intended uses would have been obvious to a person having ordinary skill in the art based on the teachings of Hirose et al. Hirose et al. teaches curable compositions which comprise silylterminated polyether polymers and teaches that sealing materials and pressure sensitive adhesive materials may be formulated therefrom (1:10-12). The compositions of Hirose et al. are similar to those taught by Toda et al. and Watabe et al. Toda et al. and Hirose et al. are combinable because they are from the same field of endeavor, namely, silyl-terminated polyether compositions used as sealants. At the time of the invention, a person having ordinary skill in the art would have found it obvious to prepare pressure sensitive adhesive products via application of the compositions rendered obvious by Toda et al. in view of Watabe et al. to the support materials of instant claim 9 as well as prepare pressure sensitive tapes, sheets, films and labels and would have been motivated to do so since Hirose et al. teaches that both sealant and pressure sensitive adhesive compositions may be prepared from compositions which have the same principal ingredients as Toda et al. Hirose et al. teaches that the pressure sensitive adhesive compositions may be applied to, inter alia, synthetic resins or modified natural resin films, papers, cloths and metal foils (10:48-55) and may be applied to tapes, sheets, labels and foils (10:46-47), which would yield a pressure sensitive adhesive product of instant claim 11.

Claim 14: It is submitted that by virtue of the teaching that it is known to prepare pressure sensitive adhesive products as taught by Hirose et al., a person having ordinary skill in the art would recognize that as such, release liners must be present in order to employ the materials as pressure sensitive tapes and labels, thereby satisfying instant claim 14.

Correspondence

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert Loewe whose telephone number is (571)270-3298. The examiner can normally be reached on Monday through Friday from 7:30 AM to 5:00 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Randy Gulakowski can be reached on (571) 272-1302. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

Application/Control Number: 10/586,858 Page 7

Art Unit: 1766

like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Robert Loewe/ Primary Examiner, Art Unit 1766 13-Jul-11